Europäisches Patentamt

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EP 0 779 587 A3

(12)

## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 15.10.1997 Bulletin 1997/42

(51) Int. Cl.<sup>6</sup>: **G06F 17/60** 

(11)

(43) Date of publication A2: 18.06.1997 Bulletin 1997/25

(21) Application number: 96114545.5

(22) Date of filing: 11.09.1996

(84) Designated Contracting States: **DE FR GB** 

(30) Priority: 15.12.1995 JP 348056/95

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## (54) On-line shopping system and the method of payment settlement

(57) When performing on-line shopping using the Internet, and when performing payment settlement for a product by a credit card, user's card data runs over the Internet, leaving the possibility of card data leakage, thereby causing a security problem. The user decides the product he or she wants to buy via a computer network (Internet) from a user system. Then, a transmission unit calls up a service center to send order data

including the credit card data via a settlement network. Service center invoices the sales price to an approval center based on the order data. Approval center pays the price to service center. Then, service center sends the order data to the shopping system. A delivery processing unit then delivers the product to the user based on the order data.

Fig.1

SYSTEM CONFIGURATION OF ONLINE SHOPPING SYSTEM 1:ONLINE SHOPPING SYSTEM 22 . PRODUCT DATA SERVICE CENTER PERSONAL DATA DECODING UNIT A SHOP SYSTEM DELIVERY PROCESSING DISTRIBUTION SHOPPING UNIT UNIT 24 : PAYMENT ACCUMULATION ` 3a 23 : PRODUCT UNIT DELIVERY 28 : PAYMENT 21 COMPUTER COLLECTION SETTLEMENT NETWORK NETWORK 26 · CHECKING B SHOP SYSTEM 20 , PRODUCT CREDIT AUTHORIZATION M~ DATA 27: INVOICING SHOPPING DOWNLOAD 21 : PRODUCT DATA APPROVAL MALL B USER SYSTEM PERSONAL DATA PRODUCT CENTER PAYMENT SELECTION UNIT TRANSFER DATA PAYMENT DOWNLOAD UNIT COLLECTION PRODUCT UNIT C SHOP SYSTEM CONFIRMATION UNIT SHOPPING TRANSMISSION UNIT 25 : PAYMENT TRANSFER MALL C ENCIPHERMENT UNIT

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## **EUROPEAN SEARCH REPORT**

Application Number EP 96 11 4545

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